Developing an Analysis of Threats to Voting Systems

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National Institute of Standards and Technology
http://vote.nist.gov/threats
voting@nist.gov

Workshop Logistics

- Please turn off cell phones/pagers
- All workshop materials/comments to be posted at http://vote.nist.gov/threats
- Lunch at local restaurants across the street or at the hotel
- We're outta here by 4:15

Our Agenda Today

- Linda Lamone, Dir of Elections, MD
- Peter Mell, NIST
- Douglas Jones, University of Iowa
- Eric Lazarus & Larry Norden for The Brennan Center
- followed by...

Moderated Panel Discussions

- Panel One: Threat Discussions on Trojan Horses, Backdoors, and Other Voting System Software-related Problems
- Panel Two: Threat Discussion on Voting System Configuration Issues and Other Problems
- Panel Three: Wrap up, Conclusions, Next Steps

Audience Participation

- Audience participation periods after each panel
- Please make remarks brief and to the point
- We encourage you to submit comments to http://vote.nist.gov/threats

Why Are We Here?

- To kick-off a threat analysis for voting systems
- Because of NIST's role under HAVA
- To help write better requirements for future iterations of voting standards
- To better dialogue with voting officials, voting researchers, and the public

What is a Threat Analysis

- Starts with a listing of potential attacks, threats, risks to voting systems
- Followed by an analysis:
  - Is the attack plausible?
  - How difficult/easy?
  - What damage can occur?
  - What countermeasures are needed?
- And then, what requirements to address the attack/threat/risk are needed in future voting standards?

Help America Vote Act (HAVA)

- Assigns specific responsibilities to NIST
- NIST Director Chairs the Technical Guidelines Development Committee (TGDC)
- NIST provides technical support (R&D) to the TGDC including
  - Security of computers
  - Methods to detect and prevent fraud
  - Protection of Voter Privacy
  - Human factors, including assistive technologies for individuals with disabilities

Next VVSG Iteration

- A comprehensive standards guideline, a complete rewrite of 2002 VSS with updated and expanded material
- Will draw from VSS, IEEE P1583, Federal and other standards
- Will include material from current VVSG and other material as directed by TGDC
- Outreach with other efforts (e.g., NSF, U of MD studies)